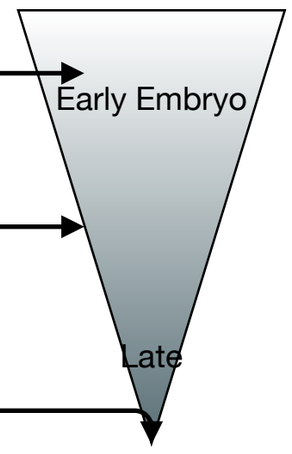
- Embryology
  - Epidermis and Dermis
    - One layer-> 2 layers -> 3 layers -> many keratinized (21 weeks)
    - Single layer of ectodermal cells on layer of mesenchyme
    - Early Phase 4-11 weeks
      - Surface ectoderm
        - Periderm
          - Secretes amnionic fluid
          - Vernix caseosa
        - Basal Germativum Layer
          - Forms Keratinocytes
    - Intermediate layer forms 11-21 weeks
    - Normal Stratum Corneum after 21 weeks
    - Defects in Keratinization, Hyperkertainization
      - Lamellar Ichthyosis
      - Harlequin fetus
    - Other Cells
      - Langerhans Cells
      - Neural Crest Cells
      - Merkel Cells



  - Hair 9-18 Weeks
    - Stage I
      - Slight invagination of epiderm and dermis (Hair germ)
    - Stage II
      - Elongation into hair bud
    - Stage III
      - Club shaped as hair BULB forms, matrix present in bulb and dermal papillae forms
    - 3 types of Hair
      - Lanugo Hair
        - First hair to form in 3-6 months gestation
      - Vellus Hair
        - Very downy hair on body by birth
        - 65% of adult female body cover
      - Terminal Hair
        - Course hair of scalp, eye brows, genital hair, 95% of male body hair, androgen influenced
        - Hirutism: hairiness of women and children bc of androgen sensitivity
        - Excessive hairiness due to excess FORMATION of follicles during devo that don't disappear normally